2Q FY00 SIP MILESTONE EXCEPTION REPORT

EVAL.	COST	SCHEDULE	TECHNICAL
Blue	EACunder >5%	Ahead > 6 weeks	Met w/less effort
Green	EAC w/i 5%	Within 6 weeks	Meets
Yellow	EAC over 5-15%	Behind 6-12 weeks	Prob.s Solvable, Action Plan
Red	EAC over > 15%	Behind >12 wk, Crit Path	Not Meet, No Action Plan

Strategic Implementation Plan (SIP) Milestone Information **As of 6/19/00**

SIP ID No.	GRC Objectives (In Bold Italic) / Milestones	COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION

UNSTATUSED MILESTONES

NONE

2Q FY00 SIP MILESTONE EXCEPTION REPORT

EVAL.	COST	SCHEDULE	TECHNICAL
Blue	EACunder >5%	Ahead > 6 weeks	Met w/less effort
Green	EAC w/i 5%	Within 6 weeks	Meets
Yellow	EAC over 5-15%	Behind 6-12 weeks	Prob.s Solvable, Action Plan
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Strategic Implementation Plan (SIP) Milestone Information — **As of 6/19/00**

SIP ID No.	GRC Objectives (In Bold Italic) / Milestones		COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION

PROPOSED MILESTONE DELETIONS, SIP TITLE AND FY CORRECTIONS

GRC Objective A8: Develop computing and testing tools to reduce aircraft engine design and development time.

2000A8.1	Develop ground and flight demonstration capabilities and methodologies for integrated air-breathing propulsion systems for experimental hypersonic vehicles and access to space.	4Q00		**Late 1Q01**		0140 PROPOSES THIS MILESTONE SHOULD BE ELIMINATED AS IT DUPLICATES A9.6 0140 B. Mader (PPO: Not in current APP Program Plan. Carryover milestone from FY99 SIP, not removed in FY00 SIP review process.) **Recommend delete from SIP.**

GRC Objective A9: Reduce the cost contribution of access-to-space propulsion systems and associated subsystems while improving their performance, life, function and operability.

2000A9.6	Complete rocket-based combined cycle (RBCC) propulsion inlet, mixer-combustor, and integrated propulsion pod component validation for semi-axisymmetric vertical take-off systems.	4Q00		**Late 1Q01**		In current APP Program Plan.

2Q FY00 SIP MILESTONE EXCEPTION REPORT

EVAL.	COST	SCHEDULE	TECHNICAL
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Strategic Implementation Plan (SIP) Milestone Information — **As of 6/19/00**

SIP ID No.	GRC Objectives (In Bold Italic) / Milestones	COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION

PROPOSED MILESTONE DELETIONS, SIP TITLE AND FY CORRECTIONS

GRC Objective H2: For the combustion science and fluid physics disciplines, enable the research community to use gravity as an experimental variable.

2000H2.1	Complete development, testing and delivery of the Combustion Module 2 (CM-2), along with one commercial and two scientific experiments, and prepare it for operation on STS-107.	***4Q00*** ~~2Q00~~	Launch Delay 4Q00		STS-107 mission has been delayed to April of 2001. New CM-2 delivery date is August 2000. Project is on schedule to meet this date. 6000 M. Lester/A. Otero **Recommend approve schedule date change.**

GRC Objective S1: Develop power, in-space propulsion, communication, and other advanced spacecraft technologies.

2000S1.4	Provide lithium-ion battery technology, in partnership with NASA/ Air Force Li Ion battery consortium, for the 2001 Mars Mission.	GREEN	BLUE	GREEN	Was completed 1Q FY99. Credit for completion was taken in FY99, and therefore, it should not be in the FY00 GRC SIP. **Recommend remove from SIP.**

2Q FY00 SIP MILESTONE EXCEPTION REPORT

EVAL.	COST	SCHEDULE	TECHNICAL
Blue	EACunder >5%	Ahead > 6 weeks	Met w/less effort
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Strategic Implementation Plan (SIP) Milestone Information — **As of 6/19/00**

SIP ID No.	GRC Objectives (In Bold Italic) / Milestones	COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION

PROPOSED MILESTONE DELETIONS, SIP TITLE AND FY CORRECTIONS

GRC Objective H3: Support the design, development, deployment and operation of the ISS and demonstrate technologies for nontoxic Space Shuttle upgrades that require less maintenance and hazardous ground processing than current hypergolic propulsion systems.

2000H3.1	Deliver more ***reliable*** ~~efficient~~ dc-to-dc converters ~~and more efficient and flexible remote power switches~~ for the ISS and continue the development of advance power system components to reduce ISS electric power system requirements.	~~**1Q00**~~	***4Q02***		Activity not yet started. **This milestone is really due 4Q FY02, and should not have been included in the FY00 SIP.** 6900 J. Dunning **Recommend remove Milestone from 2000 SIP.**
2000H3.3	Provide for deployment on ***6A*** ~~UF-1~~, the Physics of Colloids in Space (PCS) experiment, integrate it in the ISS EXPRESS rack, and initiate experiment operations following system checkout.	***3Q01*** ~~***4Q00***~~		Launch Correction 3Q01	Manifest Correction: PCS is on mission 6A, not UF-1. 6A is currently scheduled for NET (No earlier than) April 19,2001. 6700 N. Shaw **Recommend remove Milestone from 2000 SIP.**
2000H3.4	Complete the delivery of all Space Acceleration Measurement System (SAMS-II) equipment needed to support ***6A*** ~~UF-1~~.	4Q00			**Manifest Correction:** Hardware development is on track to meet delivery dates for a 6A launch. **Proposed title change.** 6000 M. Lester/D. Francisco. **Approve title change.**
2000H3.5	Complete safety and abuse testing of Lithium-Ion cells for an electric auxiliary power unit for the Space Shuttle.	~~**4Q00**~~	***4Q01***		**JSC/Boeing did not procure and provide the cells** to be tested ... therefore no testing has yet been initiated. This is a schedule change by JSC/ Boeing. The first cells will not go on test until in April, and the **current schedule will be to complete testing by 4Q01**. 6900 R. Burns **Recommend remove Milestone from 2000 SIP.**

2Q FY00 SIP MILESTONE EXCEPTION REPORT

EVAL.	COST	SCHEDULE	TECHNICAL
Blue	EACunder >5%	Ahead > 6 weeks	Met w/less effort
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Strategic Implementation Plan (SIP) Milestone Information — **As of 6/19/00**

SIP ID No.	GRC Objectives (In Bold Italic) / Milestones	COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION

PROPOSED MILESTONE DELETIONS, SIP TITLE AND FY CORRECTIONS

GRC Objective H4: Enable the commercialization of space communication, power, in-space propulsion, and other aerospace technologies.

2000H4.4	Shut down the ACTS communications payload, ***retire*** ~~super-orbit~~ the spacecraft, and terminate spacecraft operations.	4Q00			**Propose description change.** 6100 P. McMasters **Recommend approve change**.

GRC MS Objective 1.0: Optimize GRC investments and align its resources to customer requirements.

OngoM1.A	***Create a Model Workplace demonstrated by GRC's Key Values of Diversity, Quality, Openness, and Integrity.*** ~~Create and maintain a work environment free of discrimination, ensuring equal opportunity for all.~~				**Proposed title change.** 0100 P. Walker. **Recommend approve change.**
2000M1.5	Complete Business Management System implementation.	**2Q00**	**Late 4Q00**		**Proposed performance and due date changes.** Objective as stated will not be complete for years. Interpreted for this year to mean compliance of entire Center to ISO 9001 requirements. **Revise planned completion to 4Q00.** 0106 J. Haas **Recommend further discussion.**

2Q FY00 SIP MILESTONE EXCEPTION REPORT

EVAL.	COST	SCHEDULE	TECHNICAL
Blue	EACunder >5%	Ahead > 6 weeks	Met w/less effort
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Strategic Implementation Plan (SIP) Milestone Information **As of 6/19/00**

SIP ID No.	GRC Objectives (In Bold Italic) / Milestones	COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION

PROPOSED MILESTONE DELETIONS, SIP TITLE AND FY CORRECTIONS

GRC PAPAC Objective 4.0: Form alliances and partnerships with other NASA Centers, federal, state, and local agencies, academia, and industry.

2000P4.1	Establish and help maintain the North American Icing Alliance.	N. Hannum/ T. Bond/ T. Tyburski	***Jai Shin***	**Propose owners Change.** The 5000 Directorate requests that they (Whitlow on the Objective, and Hannum/Bond/Tyburski on the milestone) be removed as owners, and that Carol Russo and Jai Shin should be the new owners of the Objective and milestone, respectively. 5000 has not been involved for the last 5 months because 2000 has taken over this activity.

GRC CK Objective 1.0: Expand and enhance GRC science, math, and engineering educational programs and public outreach. To accomplish this, GRC will align its educational programs with the framework described in the NASA Implementation Plan for Education.

2000C1.4	Curriculum Support Depending on funding, bring in one or two primary teachers to develop aerospace curriculum materials suitable for grades K-3.	**CANCELLED-LACK OF FUNDING**. 9000 R. Alexander **Recommend remove Milestone from 2000 SIP.**

2Q FY00 SIP MILESTONE EXCEPTION REPORT

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Strategic Implementation Plan (SIP) Milestone Information **As of 6/19/00**

SIP ID No. **GRC Objectives (In Bold Italic) / Milestones** **COST** **SCHEDULE** **TECHNICAL PERFORM.** **DESCRIPTION OF PROBLEM AND ACTION**

MILESTONE EXCEPTION REPORT

GRC Objective A1: Reduce aircraft accidents related to icing, weather, poor visibility, and engine problems; develop technology to prevent and suppress aircraft fires.

2000A1.1 Complete and publish three-dimensional design guidelines for the control of gear crack paths and the prediction of crack growth rates in ultrasafe gears.

GREEN	YELLOW	GREEN

The Glenn rotorcraft base program suffered a 40% cut in funds in FY00. As a result, the SILNT program was cut, and the SAFOR program suffered some milestone delays due to the reduced funding levels. This milestone was one of the efforts that had to be delayed due to funding cuts. The delayed milestone was coordinated with the Rotorcraft Base Program Office at Ames. 5000 S. Foust

GRC Objective A2: Reduce the emissions of aircraft engines designed after 1997 by a factor of three by the year 2007 and by a factor of five by the year 2022.

2000A2.3 Complete selections of turbomachinery flow control concepts for fans and compressors that offer promise for use in future propulsion systems for improved performance across the mission cycle and reduced pollutants.

N/A	N/A	N/A

Milestone was planned for completion 3/00 in baseline program plan. Fan and compressor portions of milestone are being split and new dates being developed as part of UEET refresh efforts.

2Q FY00 SIP MILESTONE EXCEPTION REPORT

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Strategic Implementation Plan (SIP) Milestone Information — **As of 6/19/00**

SIP ID No.	GRC Objectives (In Bold Italic) / Milestones	COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION
	GRC Objective A7: Develop low-cost intermittent combustion and turbine engines and single-lever engine controls for General Aviation aircraft.				
2000A7.2	IC Engine Element: by 3/00 complete Engine/Propeller Integration Test clearing engine design for flight.	GREEN	YELLOW	GREEN	Project is on schedule with technical work proceeding well, but there is little room for further slippage. 0140 B. Mader
2000A7.3	Turbine Engine Element: By 5/00 complete Engineering Indendent Review Team (EIRT) Assessment certifying V-Jet II/FJX as flight ready	GREEN	RED	GREEN	Turbine engine demonstration waived by NASA Administrator; replan in progress. 0140 C. Ginty/L. Burkardt
2000A7.1	Perform flight demonstrations of advanced General Aviation piston and turbine engines at the annual Oshkosh Air Show.	GREEN	RED	GREEN	Piston engine demo expected at Oshkosh as planned. Turbine engine demonstration waived by NASA Administrator; replan in progress. 0140 C. Ginty/L. Burkardt
	GRC Objective A8: Develop computing and testing tools to reduce aircraft engine design and development time.				
2000A8.1	Develop ground and flight demonstration capabilities and methodologies for integrated air-breathing propulsion systems for experimental hypersonic vehicles and access to space.	GREEN	YELLOW	GREEN	0140 reported schedule as "Yellow." Mixer/combustor and forebody interactions rigs 1 quarter behind due design difficulty; schedule of other project elements adjusted for later receipt of data. 0140 B. Mader

2Q FY00 SIP MILESTONE EXCEPTION REPORT

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Strategic Implementation Plan (SIP) Milestone Information — **As of 6/19/00**

SIP ID No.	GRC Objectives (In Bold Italic) / Milestones	COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION
	GRC Objective A9: Reduce the cost contribution of access-to-space propulsion systems and associated subsystems while improving their performance, life, function and operability.				
2000A9.1	Develop and demonstrate X-33-scale advanced propellant densification technology. Complete LOX densifier verification testing and assemblyof a hydrogen densifier.	YELLOW	YELLOW	YELLOW	LOX Densifier Testing will take place in the 3rd quarter of 00. Hydrogen Densifier Assembly will be completed 3rd quarter of 00. 6000 M. Lester
2000A9.6	Complete rocket-based combined cycle (RBCC) propulsion inlet, mixer-combustor, and integrated propulsion pod component validation for semi-axisymmetric vertical take-off systems.	GREEN	YELLOW	GREEN	Mixer/combustor and forebody interactions rigs 1 quarter behind due design difficulty; schedule of other project elements adjusted for later receipt of data. 0140 B. Mader
	GRC Objective A10: Develop advanced spacecraft propulsion technology.				
2000A10.2	In partnership with Russia, flight-demonstrate Hall Effect thruster technology on EXPRESS.	RED	RED	RED	Flight Hardware will not meet scheduled June launch date. Work is continuing in the event the launch date slips. 6000 M. Lester

2Q FY00 SIP MILESTONE EXCEPTION REPORT

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Strategic Implementation Plan (SIP) Milestone Information — **As of 6/19/00**

SIP ID No.	GRC Objectives (In Bold Italic) / Milestones	COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION
	GRC Objective H1.0: Develop power, communications, and in-space propulsion systems and advance the state of knowledge of reduced-gravity effects to enable human missions of exploration.				
2000H1.1	Deliver the Mars Array Technology Experiment (MATE) and Dust Accumulation and Removal Experiment (DART) flight experiments for the Mars 2001 mission	YELLOW	YELLOW	GREEN	MATE/DART flight hardware delivery will not meet the original project schedule, however JSC's overall schedule has been slipped for other reasons. Funding received does not cover the GRC workforce costs. 6000 M. Lester
2000H1.3	Receive the phased-array antenna flight unit from Raytheon for the Direct Data Distribution (DDD) experiment and commence test and integration.	GREEN	YELLOW	GREEN	Contract delivery is expected to be delayed by 6 months due internal contractor technical issues (See SIP 2000S1.2). Item is not on Critical Path and Project Schedule minimally impacted. 6100 P. McMasters
	GRC Objective H2: For the combustion science and fluid physics disciplines, enable the research community to use gravity as an experimental variable. (Was supporting FY99 HEDS Goal 1, now FY2000 HEDS Goal 2)				
2000H2.1	Complete development, testing and delivery of the Combustion Module 2 (CM-2), along with one commercial and two scientific experiments, and prepare it for operation on STS-107.	GREEN	RED	GREEN	STS-107 mission has been delayed to April of 2001. New CM-2 delivery date is August 2000. Project is on schedule to meet this date. 6000 M. Lester/A. Otero Schedule will be GREEN with PMC approval of date change.
2000H2.2	Complete one Spread-Across-Liquid (SAL) and one Extensional Rheleogy Experiment (ERE) sounding rocket flight.	GREEN	YELLOW	GREEN	ERE will meet its milestone. SAL will be delayed to the first quarter of FY'01 to implement the results of theSAL-5 FRB and MRPO rocket funding constraints. 6000 M. Lester

2Q FY00 SIP MILESTONE EXCEPTION REPORT

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Strategic Implementation Plan (SIP) Milestone Information — **As of 6/19/00**

SIP ID No.	GRC Objectives (In Bold Italic) / Milestones	COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION
	GRC Objective H3: Support the design, development, deployment and operation of the ISS and demonstrate technologies for nontoxic Space Shuttle upgrades that require less maintenance and hazardous ground processing than current hypergolic propulsion systems. (Was supporting FY99 HEDS Goals 3 and 4, now FY2000 HEDS Goal 3)				
2000H3.3	Provide for deployment on ***6A*** ~~UF-1~~, the Physics of Colloids in Space (PCS) experiment, integrate it in the ISS EXPRESS rack, and initiate experiment operations following system checkout.	GREEN	GREEN	YELLOW	**Manifest Correction:** PCS is on mission 6A, not UF-1. 6A is currently scheduled for NET (No earlier than) April 19,2001. Technical Performance is "yellow" due to Bragg image failure after vibe & accidental damage to Bragg scren; assessment & resolution underway. 6700 N. Shaw
	GRC Objective S1: Develop power, in-space propulsion, communication, and other advanced spacecraft technologies.				
2000S1.2	Complete K-band monolithic microwave, integrated-circuit-based phased array development testing for use in Direct Data Distribution experiments.	GREEN	RED	YELLOW	EAC remains at 15% over agreement. Contractor's performance shortfall prevents NASA's milestone payment. Delivery is delayed by 9 months. Funding problem resolved. 6000 M. Lester
2000S1.3	Complete investigation of reliable transport protocols over dynamically delay-varying links	GREEN	GREEN	YELLOW	Range Delay / Variation emulator moved to new hardware system. S/W is being rebuilt in this new environment and debug will follow. 6000 M. Lester

2Q FY00 SIP MILESTONE EXCEPTION REPORT

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Strategic Implementation Plan (SIP) Milestone Information — **As of 6/19/00**

SIP ID No.	GRC Objectives (In Bold Italic) / Milestones	COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION
	GRC MS Objective 1.0: Optimize GRC investments and align its resources to customer requirements.				
OngoM1.A	***Create a Model Workplace demonstrated by GRC's Key Values of Diversity, Quality, Openness, and Integrity.*** ~~Create and maintain a work environment free of discrimination, ensuring equal opportunity for all.~~	GREEN	GREEN	YELLOW	Letters have been sent to all managers who have not completed Diversity Dialogue Sessions (DDS). They have been requested to contact their Process Consultant to either arrange for training or coaching, depending upon their management experience. 0100 P. Walker.
OngoM1.B	Achieve a workforce representative of America's diversity.	GREEN	GREEN	YELLOW	No major change in status in any PATCOB Categories during this reporting period. Professional Males Category remains the only Green rating; all others are Yellow or Red - overall rating remains "borderline" Yellow. 0180 D. Cotleur
2000M1.5	Complete Business Management System implementation.	GREEN	GREEN	GREEN	Objective as stated will not be complete for years. Interpreted for this year to mean compliance of entire Center to ISO 9001 requirements. Revise planned completion to 4Q00. 0106 J. Haas Schedule will be GREEN with PMC approval of date change.
OngoM1.D	Maintain ISO 9001 compliance and re-registration thereafter.	RED	GREEN	GREEN	Additional budget request of $365K for this FY has been submitted to RAM0 and CFO. 0106 J. Haas

2Q FY00 SIP MILESTONE EXCEPTION REPORT

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Strategic Implementation Plan (SIP) Milestone Information — **As of 6/19/00**

SIP ID No.	GRC Objectives (In Bold Italic) / Milestones	COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION
	GRC MS Objective 3.0: Ensure that GRC information technology provides an open and secure exchange of information, is consistent with Agency technical architectures and standards, demonstrates a projected return on investment, reduces risk, and directly contributes to mission success.				
2000M3.9	Complete an Information Technology security risk assessment for the Telescience Center.	GREEN	YELLOW	GREEN	Due to contract changes in the TSC, the risk assessment was delayed. Pam Kotlenz has met with the project manager and priority has been established to ensure completion in 3rd quarter. 7000 H. Ceh
OngoM3.C	Ensure that Information Security Plans are implemented for all GRC IT systems.	GREEN	YELLOW	GREEN	An aggressive effort is underway to accomplish this milestone. Howver, there should be no expectation that AL:L IT scurity plans can be effected this FY. All NASA goals for MEI and Special Management Attention systems WILL be met by September 30, 2000. 7000 H. Ceh
	GRC PAPAC Objective 2.0: Significantly enhance and expand GRC's critical technical capabilities.				
OngoP2.A	Develop and implement a critical technical capabilities and/or a core competencies plan.	GREEN	YELLOW	GREEN	Areas at risk and critical positions identified. New college graduates hired. Staffing plan developed and awaiting approval to hire experienced researchers. Aeroacoustics Institute approved, funding identified, and Institute being implemented. 5000 W. Whitlow

2Q FY00 SIP MILESTONE EXCEPTION REPORT

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Strategic Implementation Plan (SIP) Milestone Information — **As of 6/19/00**

SIP ID No.	GRC Objectives (In Bold Italic) / Milestones	COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION
	GRC PAPAC Objective 4.0: Form alliances and partnerships with other NASA Centers, federal, state, and local agencies, academia, and industry.				
2000P4.2	Support 30 women-owned and minority-owned small businesses under the Garrett Morgan Commercialization Initiative.	GREEN	YELLOW	GREEN	LATE ARRIVAL OF EARMARKED MONEY DELAYED START OF PROGRAM BY 9 MONTHS. AS EARMARKED MONEY IT IS EXEMPT FROM NASA'S SPENDING GUIDELINES. 9000 R. Alexander
OngoP4.F	Provide leadership and technical support to the Glennan Microsystems Initiative,a collaboration with regional industrial and academic partners, to foster innovations in micro electronic, sensor, actuator, system and control technologies for harsh environments.	YELLOW	YELLOW	YELLOW	JSRA completed with high praise from HQ and officially signed 5/00. Costing behind due to late completion of JSRA but will accelerate after signing. 6000 M. Lester
	GRC CK Objective 1.0: Expand and enhance GRC science, math, and engineering educational programs and public outreach. To accomplish this, GRC will align its educational programs with the framework described in the NASA Implementation Plan for Education.				
2000C1.2	Teacher Preparation and Enhancement - Deliver on-site educational workshops to 250 teachers	GREEN	YELLOW	GREEN	DUE TO WORKSHOP CANCELLATION, NEW PROJECTION IS 225 TEACHERS. 9000 R. Alexander
2000C1.4	Curriculum Support Depending on funding, bring in one or two primary teachers to develop aerospace curriculum materials suitable for grades K-3.	RED	RED	RED	LACK OF FUNDING. Looking for ways to complete some of this effort. Want to replan. 9000 R. Alexander